

## Reference Object “1-Litre Houses in Ludwigshafen/Germany”

External thermal insulation composite system (ETICS), between-rafter insulation, and impact sound insulation with insulation materials

- 1-litre houses from BASF Wohnen + Bauen: low-energy construction methods for novelties
- Average annual heating energy requirement of only 1 litre of heating oil per square metre of living space
- Proven and innovative energy-saving concepts:
  - ETICS system with insulation boards made of Neopor®
  - Influx of solar heat through south-facing windows in the living and sleeping areas
  - Triple-glazed windows, space between the panes is filled with inert gas
  - Ventilation systems supply fresh air without any loss of warmth
- Overall, 85% of the heat is recovered: Heaters are thus not necessary anywhere in the house – the exception being the one heater provided in the bathroom for short-term temperature regulation.

